

Machu, Willi and Ungersböck, Oskar.  
CATHODIC PICKLING IN THE PRESENCE OF  
INHIBITORS. [1961] [11]p. (1 fig. omitted) 12 refs.  
Order from SLA \$1.60 61-18507

Trans. of Archiv für das Eisenhüttenwesen (Germany)  
1942, v. 15, Jan, p. 301-306.

DESCRIPTORS: \*Pickling, \*Iron, Corrosion inhibition,  
Iron alloys, Sulfuric acid, \*Electrochemistry,  
Hydrochloric acid, \*Steel, Surface properties.

(Unannounced)

61-18507

I. Machu, W.  
II. Ungersböck, O.

184075

Office of Technical Services

Precipitation Hardening and Creep Limit of Iron-Columbium Alloys and Columbium Alloyed Steels, by F. Wever and W. Peter, 25 pp.

GERMAN, per, Arch Eisenhüttenwesen, Vol XV, 1942, pp 357-361. (Loan Copy Only).

SLA 57-2996

Sci

71,448

Aug 58

61-18652

Dannöhl, Walter.  
MODIFICATIONS IN THE STATE AND THE PROPERTIES OF IRON-NICKEL-ALUMINIUM MAGNET ALLOYS DUE TO HEAT TREATMENT. Rept. no. 576 of the [Materials Committee] of the Verein Deutscher Eisenhüttenleute. [1961] [9]p. 34 refs.  
Order from SLA \$1.60

61-18652

Trans. of Archiv für das Eisenhüttenwesen (Germany)  
1942, v. 15, Feb, p. 379-387.

DESCRIPTORS: \*Iron alloys, \*Nickel alloys, \*Aluminum alloys, Heat treatment, Magnetic properties, Mechanical properties.

I. Dannöhl, W.  
II. Title: Verein...

135153

(Metallurgy, TT, v. 6, no. 8)

Office of Technical Services

Metallographic Studies of Steel With the Electron  
Microscope, by H. Bennek, O. Rudiger, F. Stablein,  
K. B. Volk.

GERMAN, par, Archiv Eisenhüttenwesen, Vol XV,  
1941-1942, pp 431-436.

Brutcher Tr 1951

12,686

Scientific - Min/Metals

Brittleness of Chromium-rich Steels at Temperatures  
Around 930° F, by G. Bandel, W. Tofaute.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XV, No 7,  
1942.

Brutcher Tr 1893

Scientific - Min/Metals

\$13.75

12,953

~~12,953~~

Wear Caused by Metal-Against-Metal Sliding  
Experiments Friction With Special Reference to the  
Effect of Temperature, Part I, by W. Radeker,

BERMAN, per, Archiv f.d. Eisenhüttenwesen,  
Vol XV, No 10, 1942, pp 453-460.

23,614 Butcher Tr No 3460  
#9.85

Scientific - Min/Metals

May 55 QTS

Wear Caused by Metal-Against-Metal Sliding  
Friction, With Special Consideration of the  
Effect of Temperature, ~~XXXX~~ Pt. II, by  
W. Radeker,

GERMAN, per, Archiv f.d. Eisenhüttenwesen,  
Vol. XV, No 10, 1942, pp 460-469.

24,645

Brutcher Tr 3461  
\$9.65

Scientific - Min/Metals

Jun 55 CTS

Wellinger, K. and Keil, E.  
THE REDUCTION OF STRESS IN STEEL BOLTS  
UNDER LOAD AT HIGH TEMPERATURES. [1961]  
[8]p. 2 refs.  
Order from SLA \$1.10

61-18466

Trans. of Archiv für das Eisenhüttenwesen (Germany)  
1942, v. 13, p. 475-478.

DESCRIPTORS: \*Steel, \*Bolts, \*Stresses, Reduction,  
\*High temperature research.

(Unannounced)

61-18466

I. Wellinger, K.  
II. Keil, E.

184052

Office of Technical Services



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| <p>Celler, Werner.<br/>THE REDUCTION OF SILICA BY LIQUID STEEL.<br/>[Mar 45] 24p. 36 refs.<br/>Order from SLA mi\$2.70, ph\$4.80</p> <p>Trans. of Archiv für das Eisenhüttenwesen (Germany)<br/>1942, v. 15 [no. 11] p. 479-490.</p> <p>142,779</p> <p>(Unannounced)</p> | <p>60-18276</p> <p>1. Silicon dioxide--Reduction<br/>2. Steel--Melting<br/>1. Celler, W.</p> <p>Office of Technical Services</p> |
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| <p>Krisch, Alfred.<br/>THE CREEP STRENGTH OF STEEL AT ROOM<br/>TEMPERATURE. Dec 43, 11p. 2 refs.<br/>Order from SLA \$1.60</p> <p>Trans. of Archiv für das Eisenhüttenwesen (Germany)<br/>1942, v. 15, June, p.539-542.</p> <p>DESCRIPTORS: *Steel, Temperature, Creep, *Heat<br/>resistant alloys, *Austenite.</p> <p>(Unannounced)</p> | <p>61-18464</p> <p>I. Krisch, A.</p> <p>184051</p> <p>Office of Technical Services</p> |
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Spot Tests for Cobalt, Nickel and Iron, by R. Wehrich, and F. Schvertner.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVI, 1942.

Bratcher Tr 1438

Scientific - Min/Metals

\$3.50

13,025

~~13,025~~

Influence of Titanium Upon Creep Limit of Steel,  
by P. Bardenheuer, W. A. Fischer

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVI,  
1942.

Brutcher Tr 1454

Scientific - Min/Metals \$6.75

12,864

Effect of Titanium Upon the Creep Limit of Steels,  
by E. Houdremont, G. Bandel.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVI,  
1942.

Bratcher Tr 1460  
SLA 60-16278

Scientific - Min/Metals

\$14.15

12,947

~~12,947~~

The Diffusion of C and P in Steel., by H. Cornelius.  
GERMAN, per, Arch Eisenhüttenwesen, Vol 16, 1942,  
pp 1-6.

\*NBS TT 71-55281

Available NBS Only

July 71

60-18278

Bardenheuer, Peter and Fischer, Wilhelm Anton.

THE EFFECT OF TITANIUM ON THE CREEP

STRENGTH OF STEEL. Rept. no. 599 of the

Werkstoffausschuss [Materials Committee] of the

Verein Deutscher Eisenhüttenleute. [July 46] 17p.

(1 fig. omitted) 14 refs.

Order from SLA m/s 2.40, p/s 3.30

60-18278

Trans. of Archiv für das Eisenhüttenwesen (Germany)  
1942, v. 16 [pt. 1] p. 31-38.

1942, 16, 7

1. Titanium--Metallurgical  
effects

2. Steel--Creep

I. Bardenheuer, P.

II. Fischer, W. A.

III. Title: Verein...

Office of Technical Services

(Unclassified)

Metallographic Indication of Lead in Steel, by  
K. R. Volk. UNCL

GERMAN, per, Arch Eisenhuetten, Vol XVI, No 2,  
1942, pp 81-84.

British Iron and Steel Ind  
(no number given)

Min/  
Sci - Met  
Sep 59

98422



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| <p>Houdremont, Eduard and Bandel, Gerhard.<br/>THE EFFECT OF TITANIUM ON THE CREEP<br/>STRENGTH OF STEELS. Rept. no. 602 of the Werk-<br/>stoffausschuss [Materials Committee] of the Verein<br/>Deutscher Eisenhüttenleute. [July 46] 24p. (2 figs.<br/>omitted) 29 refs.<br/>Order from SLA ml\$2.70, ph\$4.80 60-18279</p> <p>Trans. of Archiv für das Eisenhüttenwesen (Germany)<br/>1942, v. 16 [no. 3] p. 85-97.</p> <p>142,789</p> <p>(Unannounced)</p> | <p>60-18279</p> <p>I. Steel--Creep<br/>2. Titanium--Metallurgical effects<br/>I. Houdremont, E.<br/>II. Bandel, G.<br/>III. Title: Verein...</p> <p>Office of Technical Services</p> |
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| <p>Houdremont, E[duard] and Bandel, G[erhard].<br/>THE EFFECT OF TITANIUM ON THE CREEP<br/>STRENGTH OF STEELS. (July 48) [9]p. 3 refs.<br/>Order from SLA mi\$1.80, ph\$1.80 60-18280</p> | <p>60-18280</p>                                                                                            |
| <p>Partial trans. (discussion, p. 97-100) of Archiv für das<br/>Eisenhüttenwesen (Germany) 1942, v. 16 [no. 3]<br/>p. 85-100.</p>                                                         | <p>1. Steel--Creep<br/>2. Titanium--Metallurgical<br/>effects<br/>I. Houdremont, E.<br/>II. Bandel, G.</p> |
| <p>See also 60-18279</p>                                                                                                                                                                  | <p>142,790</p>                                                                                             |
| <p>(Unannounced)</p>                                                                                                                                                                      | <p>Office of Technical Services</p>                                                                        |

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| <p>Zumbusch, Wilhelm.<br/>PERMANENT MAGNETS OF IRON-NICKEL-COBALT-<br/>ALUMINUM-COPPER-(TITANIUM) ALLOYS WITH<br/>PREFERRED MAGNETIC ORIENTATION. Rept. no.<br/>603 of the Werkstoffausschuss [Materials Committee]<br/>of the Verein Deutscher Eisenhüttenleute. [June 46] 21p.<br/>9 refs.<br/>Order from SLA ml\$2.70, ph\$4.80      60-18281</p> <p>Trans. of Archiv für das Eisenhüttenwesen (Germany)<br/>1942, v. 16 [no. 3] p. 101-112.</p> <p>142,894</p> <p>(Unannounced)</p> | <p>60-18281</p> <p>1. Iron alloys--Magnetic properties<br/>2. Magnets--Materials<br/>I. Zumbusch, W.<br/>II. Title: Verein...</p> <p>Office of Technical Services</p> |
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| <p>Kessner, Herbert<br/>A TEMPER-ETCHING PROCESS FOR DISTINGUISHING<br/>BETWEEN FERRITE, AUSTENITE, AND CARBIDES<br/>IN THE STRUCTURE OF HIGH-CHROMIUM STEELS.<br/>[May 46] [5]p. (2 figs. omitted) 11 refs.<br/>Order from S.I.A. m\$1.80, ph\$1.80</p> <p>Trans. of Archiv für das Eisenhüttenwesen (Germany)<br/>1942, v. 16 [no. 4] p. 145-146.</p> <p>145717</p> <p>(Unannounced)</p> | <p>60-18282</p> <p>1. Steel--Impurities<br/>1. Kessner, H.</p> <p>Office of Technical Services</p> |
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Influence of Temperature and Pressure Upon Carbon  
Monoxide Decomposition and the Disintegrating Effect  
of Carbon, by W. Bankloh, B. Edwin.

GERMAN, per, Archiv Fur Das Eisenhüttenwesen,  
Vol XVI, No 6, 1942-1943, pp 197-200.

Brutcher Tr 1372

Scientific - Min/Metals

\$4.80

12,740

Alternate Stress Diagrams of Steels at  
Higher Temperatures, by Max Hempel, Hermann  
Krug, 24 p.

GERMAN, per, Archiv fur das Eisenhutenwesen,  
1943, Vol XVI, No 7, pp 261-268.

SLA 60-10174

Sci  
Apr 60  
Vol III, No 3

112,056

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| <p>Durlet, Robert, Lwowycz, Petro, and Marjcek,<br/>Boris.<br/>THE COMBUSTION OF COKE WITH OXYGEN-<br/>ENRICHED BLAST AND ITS EFFECT ON SMELT-<br/>ING. [Oct 46] 7p. 5 refs.<br/>Order from SLA no\$1.80, ph\$1.80 60-18284</p> <p>Trans. of Archiv für das Eisenhüttenwesen (Germany)<br/>1943, v. 16 [no. 9] p. 329-332.</p> | <p>60-18284</p> <p>I. Coke - Combustion<br/>2. Blast furnaces - Operation<br/>I. Durlet, R.<br/>II. Lwowycz, P.<br/>III. Marjcek, B.</p> <p>100-100000</p> <p>Office of Technical Services</p> |
| <p>(Unannounced)</p>                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                |

Dies, K.  
THE INFLUENCE OF CARBIDE FORMERS ON THE  
YIELD POINT OF STEEL AT ROOM TEMPER-  
ATURE. [1961] [13]p. 27 refs.  
Order from SLA \$1.60

61-18654

Trans. of Archiv für das Eisenhüttenwesen (Germany)  
1943, v. 16, no. 9, p. 333-340.

DESCRIPTORS: \*Steel, Heat treatment, \*Carbides,  
Metallurgy.

(Metallurgy--Ferrous Metals, TT, v. 6, no. 6)

61-18654

L. Dies, K.

186154

Office of Technical Services



-61-18457

Baukloh, Walter, Schulte, Fritz, and Friederichs, Hellmut.

A STUDY OF THE PROCESSES INVOLVED IN THE MALLEABILISING OF UNALLOYED AND ALLOYED CAST IRON IN CARBON-MONOXIDE/CARBON-DIOXIDE MIXTURES. Rept. no. 618 of the Materials Committee of the Verein Deutscher Eisenhüttenleute; abridged version of Doctor's thesis Technische Hochschule, Berlin. Dec 43, 32p. (1 fig. omitted) 18 refs.

Order from SLA \$3.60

61-18457

Trans. of Archiv für das Eisenhüttenwesen (Germany) 1943, v. 16, Mar, p. 341-354.

DESCRIPTORS: \*Cast iron, Iron alloys, Carbon dioxide, Carbon compounds, Monoxides, Mixtures, Temperature, Diffusion, Metallurgy.

(Unannounced)

- I. Baukloh, W.
- II. Schulte, F.
- III. Friederichs, H
- IV. Title: Verein...
- V. Technische Hochschule, Berlin (Germany)
- VI. ISI-158

184048

Office of Technical Services

Baukloh, Walter and Foroud, A. K.  
THE DECARBURISATION OF CAST IRON AND  
MALLEABLE IRON IN HYDROGEN AND IN  
MIXTURES OF HYDROGEN AND WATER VAPOUR.  
Rept. no. 619 of the Materials Committee of the Verein  
Deutscher Eisenhüttenleute; abridged version of  
Doctor's thesis, Technische Hochschule, Berlin.  
[Dec 43] 16p. (5 figs. omitted) 8 refs.  
Order from SLA \$1.60

61-18461

Trans. of Archiv für das Eisenhüttenwesen (Germany)  
1943, v. 16, Mar, p. 355-362.

DESCRIPTORS: \*Cast iron, \*Hydrogen, \*Water vapor,  
Manganese, Mixtures, Graphite, Carbon, Temperature

(Unannounced)

61-18461

- I. Title: Decarburization
- I. Baukloh, W.
- II. Foroud, A. K.
- III. Title: Verein...
- IV. Technische Hochschule,  
Berlin (Germany)

184049

Office of Technical Services

Pawlek, Franz.  
IRON-SILICON ALLOYS OF HIGH INITIAL PERME-  
ABILITY DUE TO SPECIAL METALLURGICAL  
TREATMENT. Rept. no. 620 of the Materials  
Committee of the Verein Deutscher Eisenhüttenleute.  
[May 44] 9p. 6 refs.  
Order from SLA \$1.10

61-18514

Trans. of Archiv für das Eisenhüttenwesen (Germany)  
1943, v. 16, Mar, p. 363-366.

DESCRIPTORS: \*Iron alloys, \*Silicon alloys,  
Annealing, Permeability.

(Unannounced)

61-18514

- I. Pawlek, F.
- II. Title: Verein...

184080

Office of Technical Services

Photometric Method for Cobalt in Alloy Tool and High  
Speed Steels in the Presence of Iron and Alloy  
Metals., by G. Bogatskiy

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVII,  
Nos. 5-6, 4 figures, 1500 words, 1943.

Brutcher Tr Order No 1688  
\$2.40

15,171

Scientific - Min/Mals

Application of Perchloric Acid in the Determination  
of Nitrogen in Iron and Steel, by H. Kempf, K. Abresch.

GERMAN, Archiv Eisenhüttenwesen, Vol XVII, No 5-6,  
1943.

Brutcher Tr. No 1716

\$6.50

Scientific - Minerals/Metals 12,347

Thum, August and Richard, Kurt.  
MULTI-SPECIMEN TESTING EQUIPMENT FOR  
LONG-TIME CREEP TESTS. [Feb 46] 11p. (1 fig.  
omitted) 12 refs.  
Order from SLA m\$2.40, ph\$3.30 60-18283.

Trans. of Archiv für das Eisenhüttenwesen (Germany)  
1943, v. 17, July/Aug., p. 29-33.

60-18283

1. Alloys--Test methods
2. Steel--Creep
1. Thum, A.
- II. Richard, K.

142,871

Office of Technical Services

(Unannounced)

Influence of Different Alloy Additions upon  
Properties of Chromium-Containing Permanent  
Magnet Steels, by H. Krainer, F. Raidl, 21 pp.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVI,  
No 7, 1943, pp 253-260. (loan copy only)

SLA 57-2809

Sci  
Aug 58

70,898

Impact Test Bars for the Study of Steels at Sub-  
Normal Temperatures, by H. Bennek.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVI,  
No 8, 1943.

Brutcher Tr 1681

12,691

Scientific - Min/Metals

\$1.20



Shock Losses and Resistance-Loss-Coefficients  
in Pipe Lines and Conduits, by H. Euler

GERMAN, per, Archiv-f Gas Erissenhutzenwissen, No 11,  
May 1943, pp 430-438.

TPA3/TIB T.1903

Scientific - Engineering  
CIS/DEX

5865

Influence of the Steel on the Service Life on  
Gudgeon Pins, by E. Mickel, P. Sommer.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVII,  
1944, pp 227-234.

~~★~~ BISI 3087

Sci *min/mut*  
Jan 63

The Gasification of Iron, by Ernst Justus  
Kohlmaier, Hans Spandau, 31 pp.

GERMAN, per, Archiv fuer das Eisenhuettenwesen,  
Vol. XVIII, No 1/2, Jul/Aug 1944, pp 1-6.

Dept of Commerce  
Patent Office  
Sci Lib (gift)

Sci - Chemistry  
May 60

116,893

Industrial Mechanism of Plastic Deformation, by  
Erich, Siebel, 24 pp.

GERMAN, per, Arch fuer das Eisenhuettenwesen,  
Vol XVIII, No 1/2, 1944, pp 13-22.

SLA 59-15187

Sci  
Nov 59  
Vol 2, No 3

101,551

Strength Characteristics of Porous Sintered Iron,  
by H. Unckel,

GERMAN, per, Arch Eisenhuttew, Vol XVIII, 1944,  
pp 125-130.

AEC Tr-4022

Sci - Chem

May 60

117,376

Siebel, Erich and Hahn, Günter  
THE CREEP OF HEAT RESISTING STEELS AT  
TEMPERATURES OF 800 TO 1200°C. EXTRACT  
FROM G. HAHN'S THESIS FOR THE DEGREE OF  
A DOKTOR-INGENIEUR [tr. by D. G. Boxall] Rept.  
no. 641 of the Verein Deutscher Eisenhüttenleute.  
[Jan 47] 18p. (4 figs. omitted) 50 refs.  
Order from SLA and 2 40, p653.30 60-18682

Trans. of Archiv.für das Eisenhüttenwesen (Germany)  
1944, v. 17, Mar/Apr, p. 211-220.

142,858

(Unannounced)

60-18682

1. Steel. Creep.
2. Heat resistant alloys.  
Creep.
1. Siebel, E.
- II. Hahn, G.
- III. Title. Verein...

Office of Technical Services

RegrySTALLISATION After Hot-Deformation,  
With Special Reference to Deformation  
in the -Iron Region, by H. Kornfeld,  
G. Hartleif.  
GERMAN, per, Arch. Eisenh. Vol 17,  
Mar/Apr 1944, pp 221-226.  
BISI 4332

Sci/MQM  
Sep 65

289,322

Influence of the Steel on the Service Life of  
Gudgeon Pins, by E. Mickel, P. Sommer.

GERMAN, per, Archiv fuer Eisenhittenwesen, 2  
Vol XVII, 1944, pp 227-234.

BISI 3087

Sci - M/M  
Mar 63

226,640



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| <p>Siebel, Erich.<br/>THE TECHNICAL MECHANISM OF PLASTIC<br/>DEFORMATION. [Jan 47] 24p. 55 refs.<br/>Order from SLA m\$2.70, ph\$1.80 60 18681</p> <p>Trans. of Archiv für das Eisenhüttenwesen (Germany)<br/>1944, v. 18, July/Aug., p. 13-22.</p> <p>142,857</p> <p>(Unannounced) ..</p> | <p>60 18681</p> <p>1. Metallic crystals<br/>1b formation<br/>1. Siebel, E.</p> <p>Office of Technical Services</p> |
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Processes in Pressing Metallic Powders, by H. Unckel,

GERMAN, per, Arch Eisenhüttenw, Vol XVIII, 1945,  
pp 161-167.

AEC Tr-4020

Sci - Chem

May 60

117, 375

Photometric Determination of Phosphorus, Chromium,  
Nickel and Molybdenum in One Weighing, by M. Adelt,  
G. A. Gruendler.

GERMAN, Archiv Eisenhüttenwesen, Vol 19, 1948.

Butcher Tr No 2157

\$5.95

Scientific - Minerals/Metals

12,353

Structure of Cemented Carbide Compositions, by  
H. Franssen, 24 pp

GERMAN, DWA Archiv Eisenhüttenwesen, Vol XIX,  
1948, pp 79-84

FDD/X 1329  
DIX 200000-000005

4104

Metals  
Scientific - Min/MEXXIN

\$9.80

The Influence of the Elements on the Polymorphism of  
Iron, by Willy Oelsen, Franz Wever, 18 pp.

GERMAN, per, Arch Eisenhüttenw., Vol XV XIX, 1948,  
pp 97-104.

AEC Tr 2669

Sci - Min/Metals  
Jan 57 GTS

42,167

the Metallurgy of the Basic Converter Process,  
W. Oelsen. H. Maetz.

RMAN, per, Archiv fuer Eisenhuettenwesen, Vol XIX,  
48, pp 111-117.

BISI 2292

1 - Min/Met

1 61

16,069

63-14375

Trömel, Gerhard and Gedschold, Hermann.  
THE PRODUCTION OF VANADIUM FROM SLAGS  
RESULTING IN STEEL PRODUCTION (Die Gewinnung  
von Vanadin aus Schlacken, die bei der Stahlerzeugung  
Anfallen). [1963] [23]p. (foreign text included) 12 refs.  
Order from SLA \$2.60 63-14375

Trans. of Archiv für das Eisenhüttenwesen (West  
Germany) [1948] v. 19, p. 119-124.

DESCRIPTORS: \*Vanadium, Production, \*Slags, Steel,  
Manganese, Spinel, Sodium compounds, Chlorine  
compounds, Carbon compounds, Oxides, Manufacturing  
methods.

After a brief survey on the industrial experiences in  
the obtaining and processing of vanadium-containing  
slags, experiments are reported on for determining  
in the laboratory the conditions for as complete  
obtaining of pure vanadium as possible. The constitution  
(Metallurgy, TT, v. 10, no. 7) (over)

I. Trömel, G.  
II. Gedschold, H.

Office of Technical Services

The Ratio of Notched-Bar Impact Toughness Using  
Various Specimens, by C. Bihlmaier.

GERMAN, per, Archiv fur das Eisenhüttenwesen, Vol XX,  
No 1/2, 1949, pp 31-35.

D.S.I.R./12196/CT

Scientific - Engineering

DEX ONLY

12,169



The Determination of Spread in the Hot-Rolling  
of Steel by Smooth Rolls, by Werner Lueg,  
23 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen,  
Vol XX, No 1/2, 1949, pp 59-68.

SLA 60-18285

Sci

Apr 61

146,136

Creep Tests of Some Unalloyed Basic Bessemer  
Steels and High-Alloy, Heat-Resisting Steels  
at 500 to 900°C, by A. Pom, A. Krisch, 25 pp.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XX,  
No 3, 4, 1949, pp 125-134. (loan copy only)

SIA 57-2617

Sci  
Aug 58

~~SECRET~~  
A6213

Hoff, H. and Dunk, G. von der.  
TESTING THE UNIFORMITY OF ZINC COATINGS  
ON STEEL WIRE BY DIPPING IN  $\text{CuSO}_4$  SOLU-  
TIONS. [1962] 7p. (figs. refs. omitted).  
Order from SLA \$1.10 62-16958

Trans. of Arch[iv] f[ür] d[as] Eisenh[ütten]wesen  
(West Germany) 1949 [v. 20, no. 3/4] p. 135-138.

DESCRIPTORS: \*Zinc coatings, \*Steel wire, Process-  
ing, Solutions, Copper compounds, Sulfur compounds,  
Oxides.

(Metallurgy, TT, v. 8, no. 9)

62-16958

I. Hoff, H.  
II. Dunk, G. von der

Office of Technical Services

Dipper, M.

CALCULATION AND STUDY OF IMPACT EXTRU-  
SION OF SHELLS. [1962] 18p. (24 figs. 11 tables  
31 formulae refs. omitted).  
Available on loan from SLA

62-16948

Trans. of Archiv für das Eisenhüttenwesen (West  
Germany) 1949, v. 20, no. 9/10, p. 275-286.

DESCRIPTORS: \*Cylindrical bodies, \*Extrusion,  
Impact shock, Deformation, Plastic flow, Hardening,  
Statics.

(Machinery--Manufacturing, TT, v. 8, no. 5)

62-16948

I. Dipper, M.

Office of Technical Services

Fundamentals of Flow in Industrial Furnaces, by  
Michael Hansen, 20 pp.

GERMAN, per, Archiv für das Eisenhüttenwesen,  
Vol XX, No 11/12, 1949, pp 337-344.

SLA 60-18286

Se1

Apr 61

146,130

Supersonic Frequency Generator for Non-Destructive  
Material Testing, by H. and J. Krautkramer, O. Rudiger.

GERMAN, Arch Eisenhüttenw, Vol XX, No 11/12, Nov/  
Dec 1949, pp 355-358.

TPA3/TIB Trans T 3933  
P22317T

EEur - Germany  
Scientific - Electronics, generator, frequency,  
supersonic, testing

Index Aeronauticus *Also see British Order*  
*No 2879*

Wentrup, Hanns and Rett, Otto.  
ON THE SOLUBILITY OF NITROGEN IN MOLTEN  
IRON WITH CHROMIUM, MANGANESE AND NICKEL  
ADDITIONS. [1963] [17]p. 6 refs.  
Order from SLA \$1.60

63-16837

Trans. of Archiv für das Eisenhüttenwesen  
(West Germany) 1949, v. 20 [no. 11/12]  
p. 359-363.

DESCRIPTORS: Additives, \*Nickel alloys, \*Manganese  
alloys, \*Chromium alloys, \*Iron alloys, Liquid metals,  
\*Nitrogen, Solubility, High temperature research,  
Oxygen.

The receptivity of iron-chromium, iron-manganese,  
iron-nickel, iron-chromium-manganese, and iron-  
chromium-nickel melts for nitrogen was investigated  
at 1600°C and sometimes also at 1700°C, and at the  
solidification point. Chromium and manganese  
(Metallurgy, TT, v. 10, no. 9)

(over)

63-16837

I. Wentrup, H.  
II. Rett, O.

Office of Technical Services

The Effect of Welding Defects on Tensile  
Endurance Limit in 37 Steel Specimens, 16 p.  
by M. Hempel, H. Moller  
GERMAN, per, Arch Eisenhüttenw., 1949, Vol XX,  
No 11/12, pp 375-383.

ATS-01136

ATS-489.65

Sci  
Mar 60  
Vol 2, No 11

109603



Embrittlement of Hardened Steel on Tempering  
Between 250 - 400°, by H. Schradler.  
GERMAN, per, Arch Wissch, Vol 21, Jan/Feb  
1950, pp 21-31.  
BISI 5062

314,504

Sci - Mechanical, Industrial,  
Civil, and Marine Engineering  
Dec 66

A Contribution to the Metallurgy of the Blast-Furnace, by Theo Kootz, Willy Olsen, 24 pp.

GERMAN, per, Archiv fur das Eisenhutenwesen,  
Vol XXI, No 3/4, 1950, pp 77-88.

SLA 60-18628

Sci

Apr 61

146,110

Creep of Steel at Room Temperature under  
Static Load, by W. Janiche, G. Thiel, 4 pp.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXI,  
1950, pp 105-118. (loan copy only)

SLA 57-2620

Sci  
Aug 58

70,896

62-10453

Krainer, Helmut.  
INVESTIGATIONS ON TITANIUM CARBIDE AND  
TITANIUM CARBIDE-CONTAINING HARD METAL  
ALLOYS. Pt. 2 of Physical Investigations on Hard  
Metal Alloys. [1961] [17]p. 62 refs.  
Order from SLA \$1.60

62-10453

Trans. of Archiv fur das Eisenhüttenwesen (West  
Germany) 1950, v. 21, no. 3/4, p. 123-127.

DESCRIPTORS: \*Titanium compounds, \*Carbides,  
Metals, Alloys, X-rays, Sintered alloys, Met-  
allurgical analysis, Graphite, Lattices, Production,  
Quality control, Sintering, Grains (Metallurgy).

(Metallurgy--Structural, TT, v. 7, no. 8)

I. Krainer, H.  
II. Title: Physical. . .

Office of Technical Services

TT-63-20490

Fink, Kurt.  
A DYNAMIC CALIBRATION OF WIRE STRAIN GAGES  
(Eine Dynamische Eichung von Dehnungsmessstreifen).  
[1963] [16p] (foreign text included) 14 refs  
Order from SLA \$1.60

TT-63-20490

Trans. of Archiv für das Eisenhüttenwesen (West  
Germany) 1950, v. 21, no. 3/4, p. 137-142 (Max Planck  
Institut für Eisenforschung (West Germany)). Communi-  
cation-510. (Abstract available)

DESCRIPTORS: \*Strain gages, Calibration, Oscillo-  
graphs, Shock waves, Wire, Amplifiers.

Shock waves produced by impact in a cylindrical steel  
bar were photographed with elongation strip charts, a  
tube amplifier and an electron beam oscillograph. Com-  
parison of the measured shock wave path with the com-  
puted one shows satisfactory agreement within measur-  
ing accuracy. Consequently, the elongation strip chart  
(Engineering--Electrical, TT, v. 11, no. 2) (over)

I. Fink, K.  
II. Max ... Communication-510

Office of Technical Services

The Transformation Kinetics of Steels; the  
Composition of the Reactants During the  
Transformation of a Chromium-Manganese Steel in  
the Pearlite Range, by Franz Weyer, Walter Koch,  
16 pp.

GERMAN, per, Archiv fur das Eisenhutenwesen,  
Vol. XXI, No 5/6, 1950, pp 143-152.

SLA 60-18629

Sci

Apr 61

146,165

Transformation Processes as Cause of Cracking in Deep  
Carburized Steel Parts, by F. Bruhl, H. J. Wiester.

*Gekman*

~~RUSSIAN~~, per, Archiv Fur Das Eisenhüttenwesen,  
Vol XXI, 1950, pp 159-163.

Brutcher Tr No 2554

*16,676*

Scientific - Min/Metals

\$5.85

The Behavior of Steel ST 37 in the Tensile  
Strength Range, by E. Gerold, K. Trachte,  
11 pp.

GERMAN, per, Archiv fuer das Eisenhuettenwesen,  
Vol XXI, No 5/6, May/June 1950, pp 175-179.

S.L.A.

Scientific - Minerals/Metals  
CTS 70/Jul 55

25,182



The Influence of Alternating and Impact-Life  
Overloads Upon the Life of Steel Under Alternating  
Bending Loading, by A. Drozd, E. Gerold, E. H.  
Schulz, 16 pp.

GERMAN, per, Archiv für das Eisenhüttenwesen,  
Vol. XXI, No 5-6, May-Jun 1950, pp 181-185.

S.L.A.

Scientific - Minerals/Metals CTS 68/May 55

23,883

V  
The Development of the Slurry-Settling Process  
and its Significance in the Processing of Iron  
Ores, by Ernst Bierbrauer, 40pp.

~~GERMANY~~, per Archiv für das Eisenhüttenwesen,  
Vol. XXI, 1950, pp 273-282.

S.L.A. Tr 45

32,740

EUR - Germany  
Scientific - Minerals/Metals

Influence of Alloy Addition on Diffusion of H  
in Fe and Contribution of the System Fe-H, by  
W. Geller.  
GERMAN, per. Arch Eisenh. No 21, 1950, pp 423-30.  
\*NBS IT 70-57429

Sci-Mat  
Aug 70

Optical Temperature Measurements of Luminous Flames  
by Gerhard Haeser, & Werner Pepperhoff, 18 pp.

GERMAN, per, Arch fuer Eisenhuettenwesen, Vol XXII,  
No 1/2, 1951, pp 9-14.

SLA 59-10339

Sci - Chem  
Sep 59  
Vol 2, No 1

97,285

Swelling Processes and Accelerated Life-Testing  
of Hastloy-Element Alloys, by H. Krainer, L.  
Kettner, C. Carus. DECL

GERMAN, per, Arch Eisenhuettenwesen, Vol XXII,  
Mar/Apr 1951, pp 103-110.

British Iron and Steel Ind  
(no number given)

Sci - Min/Int  
Sep 59

98,231

Patenting and Drawing Experiments on Austenitic  
Coarse- and Fine-Grained Steel Wires and the  
Influence of Small Contents of Carbide-Forming  
Alloy Elements, by Werner Papendorf, 23 pp.

GERMAN, per, Archiv für das Eisenhüttenwesen,  
Vol XIII, No 3/4, 1951, pp 87-98.

SLA 60-18630

Sci

Apr 61

146,112

Qualitative Analysis of Alloy Steels -- Detection  
of Vanadium, Tungsten, Molybdenum, Chromium, and  
Manganese, by C. Beermann, H. Hartmann.

GERMAN, per, Archiv für das Eisenhüttenwesen,  
Vol XXII, Nos 5, 6, 1951, p 159.

Butcher Tr 2770

Scientific - Min/Metals \$2.60

12,714

Contribution to the Theory and Practice of  
Pressing Powdered Materials, by C. Ballhausen,

GERMAN, per, Archiv f.d. Eisenhüttenwesen,  
Vol XXII, No 5-6, 1971, pp 185-196.

23,159

Butcher Tr No 3393  
\$12.85

Scientific - Min/Metals

Apr  
20K 55 CTS



A Contribution to the Mechanics of Industrial  
Deep Drawing, by H. Kostron

GERMAN, per, Arch Eisenbuttenw, Vol XXII, No 7/8,  
Jul/Aug 1951, pp. 205-213.

OTS 62-16959  
TPA3/TIB T 4112

Scientific - Minerals/Metals  
OTS/DEX

8196

Investigation of a New Process of Hot Deep  
Drawing, by D. Lenz,

GERMAN, per, Arch. Eisenhüttenw., Vol XXII,  
No 7/8, 1951, pp 215-224.

Aluminium Lab, LTD.  
B-TM-150-34  
OT/1113

21,827

Scientific - Min/Metals      Mar 55 CTS

The Mathematics of Tensile Strengths, by H. Kostron.

Full translation.

GERMAN, Arch Eisenhüttenw., Vol 22, No 9/10,  
pp 317-325, Sep/Oct 1951.

TPA3/TIB Tr No T 3950

Scientific - Engineering

*also Nova Actia*

Index Aeronautics, March 1953

*No 270*

Room Temperature Creep Tests on Steel Wire, by  
A. Krisch.

GERMAN, por, Archiv Eisenhüttenwesen, Vol XXII,  
No 9/10, 1951, pp 313-316.

Brutcher: No 3361  
\$4.90

Sci - Min/metals

40,654

Radio Tracer Technique as Applied to Investigation  
of the Metallurgical Processes in a 50-Ton Open-  
Hearth Furnace, by W. Koch and E. Fink.

GERMAN, Archiv Fur Das Eisenhutenwesen, Vol 22,  
1951, No 11-12, pp 371-375.

Brutcher Tech Tr No 2932

A Contribution ~~ZE~~ To the Question of Endurance  
Strength With Varying Sample Size, by H. Hempel

Full translation.

GERMAN, Arch Eisenhüttenw., Vol 22, No 11/12, pp  
425-436, 1951.

TPA3/TIB Tr No T 4046

*also Nova Scotia No 68*

Scientific - Engineering

Index Aeronautics, March 1953

The Acid Smelting of Iron Ores Containing  
Manganese for Obtaining Artificial Manganese  
Ores and Their Smelting to Ferromanganese,  
by P. Ischebeck, J. Willems.

GERMAN, per, Arch Eisenhüttenw. Vol XXIII,  
No 1/2, 1952, pp 1-15.

TPA3/TIB T4492

Sci - Minerals/Metals

SLA 57-1764  
30,065

Calcium Phosphate Melting Crucibles on the  
Metallurgy of the Basic Bessemer Process, by  
Gerhard Treemel, Willy Oelsen, 8 pp. UNCL

GERMAN, per, Arch. Inst. für Eisenhüttenwesen, Vol.  
XXIII, 1952, pp 17-20. CIA 9038744

British Iron and Steel Ind 444

Sci. & Min/Met; Chem  
Apr 59

86,720



V  
Contribution to the Rapid Determination of Copper  
in Steel by W. Koch and K. Mehrens.

GERMAN, ~~ENG.~~ Archiv fur das Eisenhüttenwesen,  
Vol XLIII, No 1/ 2, 1952, pp 35-36.

Brutcher Tr No 2864

Scientific - Min/Metals

13,974

Photometric Determination of Copper in Pig Iron and Carbon Steel, by W. Wers and A. Neuburger.

SHUMAN, Archiv Fur Das Eisenhuttewesen, Vol 23, 1952, No 1-2, pp 37-38.

Butcher Tech Tr No 2865

Study of the Most Suitable Chemical Composition of  
4% Cr, 2% Co, 0.5% W Permanent Magnet Steel by  
W. Knorr

GERMAN, Archiv Fur Das Eisenhüttenwesen, Vol 23,  
1952, No 1-2, pp 53-55.

Brutcher Tech Tr No 2855

Nondestructive Ultrasonic Testing by the Pulse-  
Echo Technique, by A. Lutsch

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIII,  
No 1-2, 1952, pp 57-65.

Brutcher Order No 3070  
Price \$12.20

Scientific - Minerals/Metals Jun 53 CTS

2244

Mechanical Properties of Low-Alloy Heat-Treating Steels Improved by Proper Adjustment of Heat-Treating Temperatures and Times, by W. Eilender, H. Arend, W. Neuhaus.

GERMAN, Archiv Fur Das Eisenhuttewesen, Vol XXIII, 1952, No 1-2, pp 67-72.

Brutcher Tech Tr 2881

~~SECRET~~

Scientific - Minerals/Metals

12,343

Observations on Drastically Quenched Iron-Carbon  
Metals, by G. Falkenhagen and W. Kufmann.

GERMAN, Archiv Fur Das Eisenhuettenwesen, Vol 23, 1952,  
No 1-2, pp 73-74.

Butcher Tech Tr 2870

*Spectroanalysis of Refractories* by G. Bartleif and  
H. Kornfeld.

GERMAN, Archiv Fur Das Eisenhuttewesen, Vol 23,  
1952, No 3-4, pp 103-105.

Brutcher Tech Tr No 2898

V  
Reflected Light Phase Contrast Microscope and Its  
Application in Metallography, by F. Gabler,  
R. Mitsche, 13 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen,  
Vol XXIII, No's 3, 4, 1952, pp 145-150.

2-190

29,369

CIA/FDD/EESS

Scientific - Physics  
Min/Metals

Dec 55 CTS/DEX



Effect of Basic Oxides Upon the Desulfurization in the  
Blast Furnace, Part I, by B. Weilandt, H. Meetz,  
W. Gelsen.

GERMAN, per, Archiv für das Eisenhüttenwesen, Vol. XXIII,  
No 5-6, 1952, pp 153-168.

Brutcher Trans No 2950

Scientific - Metallurgy, Chemistry, iron ores, oxides,  
blast furnace, metasilicates

Effects of Basic Oxides Upon the Desulfurization in  
the Blast Furnace, Part II, by B. Weilandt, H. Maetz,  
W. Oelsen. 37pp.

Full translation.

GERMAN, per, Archiv fur das Eisenhüttenwesen, Vol XXIII,  
No 5-6, 1952, pp 168-172.

Brutcher Tr No 2951  
SLA 63-16833

ESur - Germany

Scientific - Sulfur, blast furnace, oxides

The Deformation Conditions in Hot Deep-Drawing,  
by D. Lenz

Full translation.

GERMAN, per, Arch Eisenhüttenw, Vol XXIII, No 5/6,  
May/Jun 1952, pp 173-181.

TPA3/TIB Tr No T-4078

Scientific - Engineering  
Index Aeronautics  
Jun 53

OTS/DEX

2314



Effect of Powder Particle Size Upon Behavior of  
Sintered Iron in Nitriding, by W. Koster, J.  
Raffelsieper

GERMAN, per, Archiv Eisenhüttenwesen, Vol XIII,  
No 5-6, 1952, pp 225-228.

Brutcher Tr 3093

Scientific - Minerals/Metals  
CTS/DEX Price \$6.40

8519

Incubation Time of Austenite Transformation With  
Different Types of Cooling, by F. Wever, O. Krisement,

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIII,  
No 5-6, 1952, pp 229-237.

Brutcher Tr 3039

Scientific - Minerals/Metals  
CRS/DEX Price \$12.60

7844

Friction Under Roller Pressure at Different Modulus  
of Elasticity, by Alfred Schafer. UNCLASSIFIED

GERMAN, per, Archiv fur das Eisenhuettenwesen, Vol  
XXIII, No 7/8, Jul/Aug 1952, pp 253-256.

Navy Tr 982/BuShips 552

11,928

Scientific - Engineering

(C.T.S)/DEV

Embriettlement of Austenitic Chroma-Nickel Steels at  
High Temperatures. Part I., by G. Hoch

*f.d.*

GERMAN, per, Archiv Eisenhuttewesen, Vol XXIII,  
No 7-8, 1953, pp 257-263.

Brutcher Tr 3176

Scientific - Minerals/Metals

CTB/DEX

Price \$9.75

8521



Embriittlement of Austenitic Chrome-Nickel Steels  
at High Temperatures. Part II, by G. Hoch

GERMAN, per, Archiv f. d. Eisenhüttenwesen, Vol  
XXIII, No 7-8, 1952, pp 265-272.

Brutcher Tr 3177

Scientific - Minerals/Metals  
CTS/DEX Price \$9.40

9294

Embriement of Austenitic Chrome-Nickel Steels at  
High Temperatures, by G. Hoch,

part III,

GERMAN, Archiv f. d. Eisenhüttenwesen, Vol XXIII,  
No 7-8, 1952, pp 272-276,

Brutcher Tr 3178

SLA-57-2636

10455

Sci - Min/Metals

CTS/DEK

Price \$7.90

Influence of Structure of Plain Carbon and  
Alloy Steels Upon the Spark Stream in Spark  
Testing, by J. Hunger, O. Wenzler

GERMAN, per, Archiv f. d. Eisenhüttenwesen, Vol  
XXIII, No 7-8, 1952, pp 277-286.

Brutcher Tr 3198

Scientific - Minerals/Metals

DEX CTS/DEX

Price \$13.75

9291

Determination of the Residual Stresses on  
Finished Work Pieces, by H. Bühler, 10 pp.

GERMAN, per, Archiv für das Eisenhüttenwesen,  
Vol XXIII, No 7/8, 1952, pp 293-297.

S. L. A.

Scientific - Engineering

CBS 68/May 55

23,638